TECHNICAL MANUAL

RECEIVER-TRANSMITTER BC-1335

Changes No. 1

DEPARTMENT OF THE ARMY Washington 25, D. C., 26 April 1948

Receiver-Transmitter BC-1335, serial numbers 5000 through 5499 inclusive on Order No. 2217-Phila-48, is substantially the same as Receiver-Transmitter BC-1335 previously procured and described in TM 11-879. To make TM 11-879 applicable to Receiver-Transmitter BC-1335, serial numbers 5000 through 5499 inclusive on Order No. 2217-Phila-48, TM 11-879, 23 April 1945, is changed as follows:

The "warning notice" on the cover and title page is deleted.

Figure 7 is rescinded.

Change figure 17 as follows:

Change the value of R21 in the diagram and on the chart from 4,700 ohms to 470,000 ohms.

Change the value of C26 in the diagram and on the chart from 8 mmf to 10 mmf.

Change the value of C36 and C37 in the diagram and on the chart from 20 mmf to 15 mmf.

Show C50 inside the shielding of T5.

Change figures 28 and 37 as follows:

Change the value of R9 in the diagrams and on the charts from 27,000 ohms to 22,000 ohms.

Section XVII is rescinded.

Change figure 61 as follows:

Change the value of C26 from 8 mmf to 10 mmf.

Change the value of C36 and C37 from 20 mmf to 15 mmf.

Change the value of C24 from 40 mmf to 40 mf.

Change the value of R9 from 27M to 22M.

Change the value of R44 from 240M to 220M.

Change the value of R62 from 220M to 220 ohms.

Show C50 inside the shielding of T5.

channel frequencies and Stemal Corps storic numbers are identifical; therefore area-

^{*}These changes supersede so much of Addenda Sheet, 10 May 1945, as pertains to TM 11-579.

5. Table of Components

		Compo	onent			Quantity
*	*	*	*	*	*	*
Tube JAN-C	B3/VR-90					
Tube JAN-1	L4					The state of the s
Tube JAN-1	R5					
Tibe JAN-3	A5		1141111111			
Tube JAN-3	Q4					
Tube JAN-6	AF6G					
*	*	*	*	*	*	*
A THE PERSON NAMED IN						
CONTRACTOR DE	*	*	*	*	*	*

6. Shipping Weights and Dimensions of Packed Sets (Superseded)

Receiver-Transmitter BC-1335 is packed as a unit in a corrugated paper carton 16¾ inches wide by 13¾ inches deep by 11½6 inches high (fig. 8) with a total weight of approximately 38 pounds. The unit package is a double carton with a vaporproof barrier, or lining, around rhe inside carton. For export, the set is packed in a wooden crate holding three separate cartons which contain the following additional components of Radio Set SCR-619:

Quantity	Description
mil strade at de las amendi	Set of 8 tubes:
2	JAN-1L4
1	JAN-1R5
1	JAN-3A5
1	JAN-3Q4
1	JAN-6AF6G
1	JAN-OB3/VR90
1	JAN-1A3
9	Batteries BB-54
3	Boxes CH-291

For further details on packaging of Receiver-Transmitter BC-1335 with tubes and batteries, and in a wooden crate with major components, refer to TM 11-619.

7. Description of Components

Note (Added). Crystal Holder FT-243 with crystal is used in both Receiver-Transmitter BC-1335 and Radio Receiver and Transmitter BC-659-(). The channel frequencies and Signal Corps stock numbers are identical; therefore crystals marked for BC-1335 or BC-659 may be used interchangeably in either equipment.

8. Unpacking, Uncrating, and Checking (Superseded)

Unpack the receiver-transmitter carefully and inspect for possible damage during shipment (fig. 8). The receiver-transmitter is shipped with all tubes and crystals installed. To unpack, proceed as follows:

a. Open the carton with knife or other sharp instrument.

b. Open vaporproof barrier.

c. Remove four bags of silica gel on top of protection pad.

d. Remove protection pad.

e. Remove corner pads that hold unit in place in carton, and remove plywood panels at front and rear that protect control panel and antenna post.

f. Take unit out of inside carton.

3

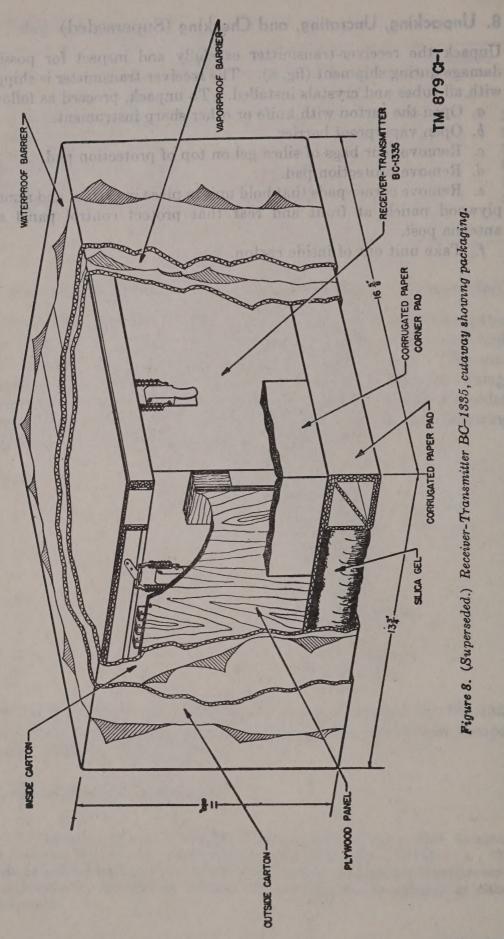


Figure 8. (Superseded.) Receiver-Transmitter BC-1335, cutaway showing packaging.

50. Soldering Tip (Superseded)

Refer to paragraph 93b for instructions on the construction of a special soldering iron tip.

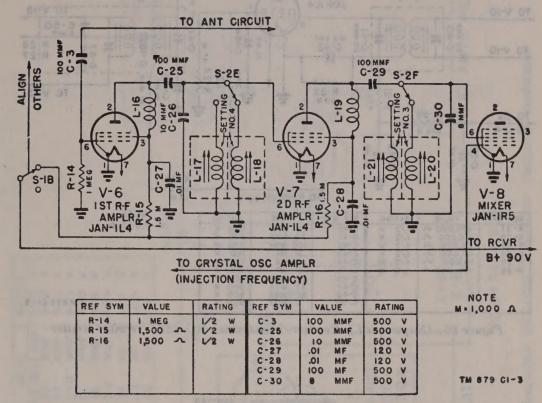


Figure 19. (Superseded.) Receiver-Transmitter BC-1335, receiver r-f amplifier.

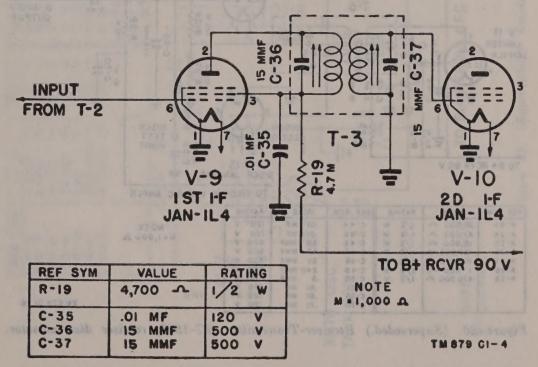


Figure 23. (Superseded.) Receiver-Transmitter BC-1835, receiver first i-f amplifier.

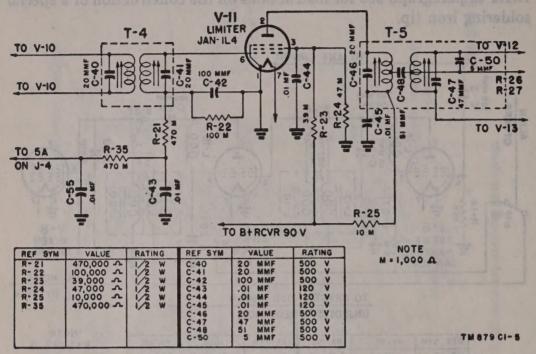


Figure 25. (Superseded.) Receiver-Transmitter BC-1335, receiver limiter

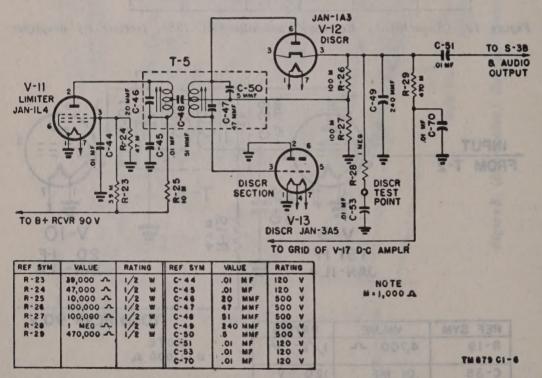


Figure 26. (Superseded.) Receiver-Transmitter BC-1335, receiver discriminator.

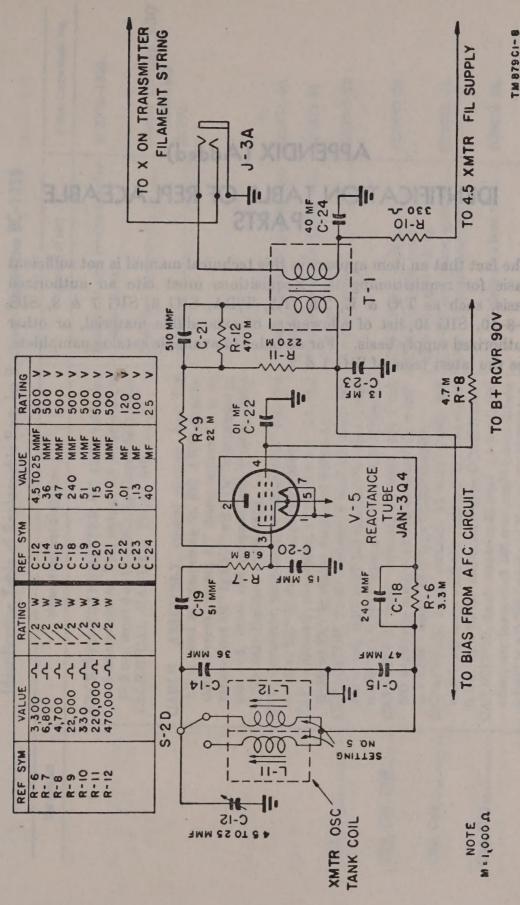


Figure 31. (Superseded.) Receiver-Transmitter BC-1335, transmitter reactance modulator.

APPENDIX (Added)

IDENTIFICATION TABLE OF REPLACEABLE PARTS

The fact that an item appears in this technical manual is not sufficient basis for requisitioning it. Requisitions must cite an authorized basis, such as T/O & E, TE, TA, T/BA, SIG 6, SIG 7 & 8, SIG 7-8-10, SIG 10, list of allowances of expendable material, or other authorized supply basis. For an index of available catalog pamphlets, see the latest issue of SIG 1 & 2.

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335

Ref symbol	Name of part and description	Function of part	Signal Corps stock No.
	RECEIVER-TRANSMITTER BC-1335: vehicular and transportable; FM; output 1.8 w; freq 27 to 38.9 mc; input 6 or 12 v DC; Sig C spec #271-3096. TECHNICAL MANUAL: TM 11-879.	Transmits and receives voice radio signals. Describes equipment	2C5395-1335.
	CABLE ASSEMBLY, special purpose: four #18 AWG cond ea comprising 26 #32 AWG strands; cloth-covered; round, ¼" diam; approx 7" lg w/	A-f cable	channels.) E7270.
	one end, other end stripped and tinned; Delco #7254292; Rauland #VW-0603. CAP: connector; aluminum; %" diam x %" thk, thd %-24 w/ 2%" lg chain; Amphenol #9760.	Weather seal for coaxial con-	2Z3351-30.
C30	CAP: connector; aluminum; 1" diam x %10" thk, thd %20 w/ 24" lg chain; Amphenol #9760-14.	Weather seal for power connector Pl.	2Z1612.26.
	vdcw; neg temp coeff 150 mmf/mf/°C; max dimen 0.460'' lg x 0.240'' diam; JAN type CC30PHO80D.	V8 grid tuning	3D9008-22.
C26, C57, C63	CAPACITOR, fixed: ceramic; 10 mmf ±½ mmf; 500 vdcw; neg temp coeff 150 mmf/mf/°C; 0.460′′ lg x 0.240′′ diam; JAN type CC30PH100D.	C26-V7 grid tuning	3D9010-88.
C20, C64	CAPACITOR, fixed: ceramic; 15 mmf ±5%; 500 vdcw; neg temp coeff 150 mmf/mf/°C; max dimen 0.460'' lg x 0.240'' diam; JAN type CC30PH150J.	C20-V5 grid phase shifting	3D9015-53.
CIB, CIT	CAPACITOR, fixed: ceramic; 24 mmf ±5 mmf; 500 vdcw; neg temp coeff 150 mmf/mf/°C; max dimen 0.460'' lg x 0.240'' diam; JAN type CC30PH240J.	C16-V4 plate-grid feedback	3D9024-24.

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335—Continued

Pof errarbel	Moma of next and description	Function of nort	Climal Come stook No
MOTH SC TONY	Trame of hat cand description	r unchion of part	organa Corps stock 110.
	THE PARTY OF STREET WAS AND TO STORY OF SALES OF SALES		
C8. C9	CAPACITOR, fixed: ceramic: 27 mmf +2%: 500	C8-V1 grid tuning	3D9027-14.
	vdew new temp coeff 150 mmf/mf/oC max dimen	C9-V2 orid tuning	
	0.460", lo x 0.240" diam: JAN type CC30PH270G.	.0	
C14	CAPACITOR, fixed: ceramic; 36 mmf ±5%; 500	V4 plate tuning	3D9036-6.
	vdcw; neg temp coeff 470 mmf/mf/°C; max dimen)	
	0.460" lg x 0.240" diam; JAN type CC30TH360J.		
C15	CAPACITOR, fixed: ceramic; 47 mmf ±2%; 500	V4 plate tuning	3D9047-18.
	vdew; neg temp coeff 80 mmf/mf/°C; max dimen	The same of the sa	
	0.460'' lg x 0.240'' diam; JAN type CC30LH470G.	The state of the s	
C19	CAPACITOR, fixed: ceramic; 51 mmf ±2%; 500	V5 grid coupling and phase	3D9051-16.
	vdcw; neg temp coeff 150 mmf/mf/°C; 0.460" lg	shifting.	
	x 0.240" diam; JAN type CC30PG510G.	of the state of the state of the	
C77 through C82	CAPACITOR, fixed: ceramic; feed-thru type; 1000	C77-Transmitter filament	3D9055-4.1
	vdcw; neg temp coeff 520 mmf/mf/°C; 15/32" lg x	string r-f bypass.	
	11/32" diam; Centralab #617-001.	C78-Receiver filament string	
	Contraction of the contraction of the contraction	r-f bypass.	
		C79-Receiver high-voltage r-f	
	CYBES VALLED DEL SPORTE DECIDES, INC. 118	bypass.	
		C80-Transmitter high-voltage	
	ABSOLUTIONE MUNICIPALITY AND POLICY	r-f bypass.	
		C81-Transmitter filament	
		string r-f bypass.	
	SECRIALISTERY MILLIES RC-1879 ASTROPPED	C82-Receiver filament string	302010-138g
-		r-f bypass.	

3D9100-190.	3D9240-1 9 .			3K20511 22.
C3-Receiver antenna coupling. C25-V6 plate output coupling. C29-V7 plate output coupling. C42-V11 grid return bypass. C56-V14 plate output cou-	pling. C2-V1, V2 plate supply r-f bypass. C10-V3 plate output cou-	pling. C11-V4 plate (pin 6) output coupling. C13-V4 plate (pin 2) output	coupling. C18-V5 plate, R6 bypass. C49-V12 cathode bypass. C52-TEST PROD r-f bypass.	C54-J4 pin 6 r-f bypass. C66-V16 oscillator tuning. C21-Microphone input, h-f audio pre-emphasis. C85-High-voltage r-f filter.
C3, C25, C29, C42, CAPACITOR, fixed: ceramic; 100 mmf±5%; 500 C3-Receiver antenna coupling. 3D9100-190. C56. vdcw; neg temp coeff 330 mmf/mf/°C; max dimen C25-V6 plate output coupling. C29-V7 plate output coupling. C42-V11 grid return bypass. C56-V14 plate output cou-	CAPACITOR, fixed: ceramic; 240 mmf ± 2%; 500 vdcw; neg temp coeff 470 mmf/mf/°C; max dimen 1.165" lg x 0.315" diam; JAN type CC35TK241G.			CAPACITOR, fixed: mica; 510 mmf \pm 5%; 500 vdcw; max body dimen $^{5}/_{64}$ " lg x $^{1}/_{52}$ " wd x $^{7}/_{22}$ " thk; JAN type CM20B511J.
C3, C25, C29, C42, C56.	C2, C10, C11, C13, C18, C49, C52, C54, C66.			G2 1, C85

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335-Continued

Signal Corps stock No.	3DA10-406.
Function of part	C22-V5 screen bypass. C27-V6 screen bypass. C28-V7 screen bypass. C31-V8 screen bypass. C31-V8 screen bypass. C32-V8 plate return bypass. C32-V9 screen bypass. C39-V10 screen bypass. C44-V11 screen bypass. C45-V11 plate return bypass. C51-V12 a-f output coupling. C53-V12 DISCR TEST POINT decoupling. C53-V12 fin 5A decoupling. C55-J4 pin 5A decoupling. C55-J4 pin 5A decoupling. C55-V1 grid (pin 4) return bypass. C60-V14 screen bypass. C60-V14 screen bypass. C62-V16 grid (pin 6) coupling. C63-V16 grid (pin 6) coupling. C63-V16 grid (pin 6) coupling. C69-V16 screen bypass. C69-V16 screen bypass. C69-V16 screen bypass. C69-V16 screen bypass.
Name of part and description	CAPACITOR, fixed: paper; 10,000 mmf ± 10%; 120 vdcw; body dimen 51/4" g x 15/3" wd x 7/3" thk; JAN type CN20E103K.
Bef symbol	C22, C27, C28, C31, C32, C35, C39, C43 through C45, C51, C53, C60, C62, C67, C67, through C72, C86, C87, C92.

	3DA20-146.	3DA100-766.	3DA13-15.	3DA500-97.3.	3DB20-108.
C72-T6 primary, h-f audio attenuator. C86-Pl battery lead bypass. C87-Pl battery lead bypass. C92-Receiver filament string bypass.	T7 secondary buffer	C83A-High-voltage r-f filter. C83B-Transmitter filament string r-f filter. C83C-Receiver filament string	C23-T1 secondary a-f bypass. C38-Receiver high-voltage line bypass. C88-V11 filament bypass. C89-V10 filament bypass. C90-V9 filament bypass. C91-V12 filament bypass. C93-Transmitter filament	string bypass. T7 primary buffer	C84A-High-voltage hum filter. C84B-High-voltage hum filter.
	CAPACITOR, fixed: paper; 20,000 mmf±10%; 1500 vdcw; HS metal case; oil filled; 11%6" lg x 1" wd x ¾" h; Delco #7253765; Rauland #CO-203G.	CAPACITOR, fixed: paper; three sect; 100,000–100,000 mmf \pm 20%; 600 vdcw; HS metal case; oil filled; body dimen $1^{13}\%$, $\lg x 1''$ wd x $\frac{3}{4}$, h; JAN type CP54B5FF104M.	CAPACITOR, fixed: paper; 130,000 mmf +30% -10%; 100 vdcw; HS metal case; oil filled; body dimen 1½" lg x %" diam; Rauland #CO-134A.	CAPACITOR, fixed: paper; 500,000 mmf $\pm 10\%$; 600 vdcw; HS metal case; oil filled; body dimen $1^{1}\%6'$ lg x $1''$ wd x $\%''$ h; Delco #7253766; Rauland #CO-504Y.	CAPACITOR, fixed: electrolytic; 2 sect; 20-20 mf; 400 vdcw; HS, plug-in type: body dimen 2½" lg x 1½" diam; JAN type CE52C200Q.
	C75	C83A, B, C	C23, C38, C88 through C91, C93.	C76	C84A, B

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335—Continued

Ref symbol	Name of part and description	Function of part	Signal Corps stock No.
C24	CAPACITOR, fixed: paper; 40 mf; 25 vdcw; body dimen 11%, lg x 1" wd x 1%, h; HS metal case;	Microphone circuit a-f bypass.	3DB40-54.
C73	CAPACITOR, fixed: electrolytic; 2000 mf; 15 vdcw; 3½" lg x 1½", diam; Mallory #FP; Rauland	Filament circuit hum filter	3DB2000-4.1.
C1, C58, C61	CAPACITOR, variable: ceramic; 2.5 to 13 mmf; 500 vdcw; zero temp coeff; 17/6" lg x 4%" wd x	C1—Antenna coupling	3D9013V-4.
C4	%'' h; Centralab #822BZ; Rauland #CV-130B. CAPACITOR, variable: air; 3.7-35.2 mmf; 0.016'' air gap; SLC characteristic; lug term RH side;	C61-V14 grid tuning. V1, V2 plate tuning	3D9035VE2-1.
C5	body 134" lg x 1516" wd x 1782" h; Amer Steel Pack #35-G, type H; Rauland #CV-350A. CAPACITOR, variable: air; 3.7 mmf to 35.2 mmf; 0.016" air gap; SLC characteristic; lug term LH	V1, V2 plate tuning	3D9035VE2-2.
C6, C7.	Pack #35-G, type H; Rauland #CV-350B. CAPACITOR, variable: ceramic; 4.5 to 25 mmf; 500 vdcw; zero temp coeff; *¼*/* wd x 2½*/* lg x	C6-V1, V2 neutralizingC7-V1, V2 neutralizing.	3D9025V-82.
C12	CAPACITOR, variable: ceramic; 4.5 to 25 mmf; 500 vdcw; neg temp coeff; 500 mmf/mf/°C; 4%,	V4 plate tuning	3D9025V-80.
BTI	Wd X %27 Ig X %27 thk; JAN type CV11C250. CELL, bias: Sig C Bias Cell BA-45; 1¼ v; cylindrical; %'' diam x 1½2" h over-all; Rauland #JB-0006; spec #JAN-B-18A.	Bias cell for calibrating V18	3A9045.

	2X179-5675. 2X179-5700. 2X179-5725.		2X179-5825.	2X179-5875.	2X179-5925.	2X179-5950. 2X179-5975.	2X179-6000.	2X179-6050.	2X179-6100.	2X179-6125. 2X179-6150.	2X179-6175.	2X179-6225.	2X179-6275.	2X179-6300. 2X179-6325.	2X179-6350.
Controls frequency of receiver- transmitter.															
CRYSTAL UNIT, quartz: Army-Navy Crystal Unit CR-6/U ea unit consists of a quartz plate in Sig C Crystal Holder FT-243; over-all dimen 11%2", h x 13%," the		quartz: 5750 kc; chan 27.3 quartz: 5775 kc; chan 27.4	UNIT, quartz: 5825 kc; chan	UNIT, quartz: 5875 kc; chan	UNIT, quartz: 5925 kc; chan	CRYSTAL UNIT, quartz: 5950 kc; chan 28.1 mc CRYSTAL UNIT, quartz: 5975 kc; chan 28.2 mc	quartz:	UNIT, quartz:	UNIT, quartz: 6100 kc; chan	UNIT, UNIT,	CRYSTAL UNIT, quartz: 6175 kc; chan 29.0 mc CRYSTAL UNIT, quartz: 6200 kc; chan 29.1 mc	quartz: 6225 kc; chan	UNIT, quartz: 6275 kc; chan	CRYSTAL UNIT, quartz: 6300 kc; chan 29.5 mc CRYSTAL UNIT, quartz: 6325 kc; chan 29.6 mc	quartz:

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335—Continued

Ref symbol	Name of part and description	Function of part	Signal Corps stock No.
			TOTAL COLDS SHORT ING.
			0 0 0 m + 22 0
	CRYSTAL UNIT, quartz; 6400 kc; chan 29 9 mc		2X179-6375.
	CRYSTAL UNIT, quartz: 6425 kc. chan 30 0 m.		2X179-6400.
	CRYSTAL UNIT GUBTES: 6450 kg. 2hg. 20.1	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2X179-6425.
	TINE		2X179-6450.
	LINIT CONTACTOR OF STATES		2X179-6475.
	TIME GEORGE CONTROL CONTROL CONTROL		2X179-6500.
	UNII, quartz: 6525 kc; chan		2X179-6525
	UNIT,		2X170_6550
			9X170_6575
	UNIT, quartz: 6600 kc; chan		57113-0010.
	CRYSTAL UNIT, quartz: 6625 kg: chan 30 8 mg		ZA1/9-6600.
	Clipate 6650 Lo. cho		2X179-6625.
	TIMIT.		2X179-6650.
	ONIT,		2X179-6675
	UNIT, quartz:		9X170-6700
	7		9V170 670F
	UNIT, quartz: 6750 kc; chan		20119-0125.
	CRYSTAL UNIT. quartz: 6775 kg. chan 314 mg		ZA179-6750.
	CRYSTAL UNIT oughts: 6800 Lo. show 31 F		2X179-6775.
	TINIT amoute.		2X179-6800.
	ITMIT COLUMN COLO IN TANIE		2X179-6825.
	ITALL, quartz:		2X179-6850.
	TIMIT quartz:		2X179-6875.
	UNII, quartz:		2X179-6900
	UNIT, quartz:		2X179_6925
	UNIT, quartz:		9X170_6950
	UNIT, quartz:		0.V170 607F
	UNIT, quartz:		5X179-09/3.
	CRYSTAL UNIT, quartz: 7025 kc; chan 32.4 mc _		9X170 7095
			.cz01.9-7025.

2X179-7050. 2X179-7075. 2X179-7100. 2X179-7125. 2X179-7126. 2X179-7226. 2X179-7226. 2X179-7226. 2X179-7226. 2X179-7226. 2X179-7326. 2X179-7326. 2X179-7426. 2X179-7426. 2X179-7426. 2X179-7426. 2X179-7600. 2X179-7600. 2X179-7650.	2X179-7825.
	8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7050 kc; chan 32.5 mc	35.6 mc
27777777777777777777777	
	UNIT, quartz:
CRYSTAL CRYSTA	CRYSTAL

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335—Continued

Ref symbol	Name of part and description	Function of part	Signal Corps stock No.
	CRYSTAL UNIT, quartz: 7850 kc; chan 35.7 mc		2X179-7850.
	CRYSTAL UNIT, quartz: 7900 kc; chan 35.9 mc		2X179-7875. 2X179-7900
	325 kc; chan 36.0		2X179-7925.
	יב נ		2X179-7950. 2X179-7975
	UNIT, quartz: 8000 kc; chan		2X179-8000.
	, quartz: 8025 kc; chan		2X179-8025.
	UNIT, quartz: 8050 kc; chan		2X179-8050.
	AL.		2X179-8075
	UNIT, quartz:		2A179-8100.
	UNIT, quartz: 8150 kc; chan		2X179-8150
	AL UNIT,		2X179-8175.
	UNIT,		2X179-8200.
	UNIT, quartz: 8225 kc; chan		2X179-8225.
	UNIT, quartz: 8250 kc; chan		2X179-8250.
	UNIT, quartz: 8275 kc; chan		2X179-8275.
	UNIT, quartz: 8300 kc; chan		2X179-8300.
	UNIT, quartz: 8325 kc; chan		2X179-8325.
	UNIT, quartz: 8350 kc; chan		2X179-8350.
	UNII, quartz: 8375 kc; chan		2X179-8375.
	8400 kc; chan		2X179-8400.
	TINIT CHEEKS 8425 Ke; chan 38.0		2X179-8425.
	UNIT, quartz:		2X179-8450.
	INIT quartz: 8500 ke. chan		2X179-8475.
	61		2X179-8500.

2X179-8525. 2X179-8550. 2X179-8575. 2X179-8600. 2X179-8625. 2X179-8650. 3C1084Z3-20.	3C1084 Z3-27.	3C1084 Z 3-15.	3C1084Z3-28.	3C1084Z3-29.
Antenna inductor	V16 oscillator tank	L5—V1, V2 grid r-f choke. L8—V3 plate r-f choke. L16—V6 plate r-f choke. L19—V7 plate r-f choke. L24—V14 plate r-f choke. L27—V15 plate r-f choke. L29—Receiver high-voltage r-f choke.	L9—V3 grid r-f choke. L10—V3 grid r-f choke. L13—V4 plate r-f choke.	L2—Antenna couplingI.4—V1, V2 plate tank.
CRYSTAL UNIT, quartz: 8525 kc; chan 38.4 mcCRYSTAL UNIT, quartz: 8550 kc; chan 38.5 mcCRYSTAL UNIT, quartz: 8575 kc; chan 38.6 mcCRYSTAL UNIT, quartz: 8600 kc; chan 38.7 mcCRYSTAL UNIT, quartz: 8625 kc; chan 38.9 mcCOIL, RF: antenna; single winding; single layer wound; unshielded; 9 turns #20 AWG copper wire; 11¼6′ lg x 1¾6′ diam over-all; Delco #7254225;	COIL, RF: bias oscillator; single winding, 1 pie universal wound; shielded; rectangular steel can; 14%4" lg x 7%" wd x 11%4" h; Delco #7254438;	COIL, RF: choke; single winding; 2 pie universal wound; unshielded; 70 turns #38SSE wire per pie; %,' diam x %'' lg; Delco #7253929; Rauland #LC-0176.	COIL, RF: choke; single winding; 2 pie universal wound; unshielded; 140 turns #38SSE wire per pie; distributed capacity 0.7 mmf; %" diam x %" lg;	COIL, RF: transformer; 2 windings; single layer wound; 5 turns #20 AWG tapped % turn and at 2½ turns; ½ turn of #22 AWG ins wire; 1¾" lg x 1¼" diam over-all; Delco #7254224; Rauland #LQ-0115.
11	L28	L5, L8, L16, L19, L24, L27, L29.	L9, L10, L13	L2, L4

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335—Continued

Function of part Signal Corps stock No.	L6—V1, V2 grid tank. L7—V1, V2 grid tank.	L11—V4 plate tank	Antenna connector 2Z307-51.	Antenna connector2Z8799-239.	Battery connector	Metering strip	Protects equipment from 3Z1921A. overloads. For mounting equipment 6Z3810-68.
Name of part and description	COIL ASSEMBLY, RF: doubler; single winding; L6-single layer wound; shielded; rectangular aluminum can; 1½" wd x ¾" thk x 3½", h; adj iron cores; 2 knob adjustments on ton: Delco #7254079		dapter: single contact; brass; 2%" over-all; Delco #7253908; Rauland	CONNECTOR, receptacle: Sig C Socket SO-239; Ant single round female cont; straight; 11/16" lg x 1" wd x 1" h; Sig C dwg #SC-D-5850.	receptacle: 3 round male cont; lg x 1%, sq flange; Amphenol -7P.	CONNECTOR ASSEMBLY: female contact; six pin jacks on bakelite strip; 2%," lg x ½," wd x 1%,2" h over-all; Delco #7253616; Rauland #VT-0243.	FUSE FU-21: cartridge; 10 amp. 25 v; glass body; ferrule term; 1¼" lg x ¼" diam. FASTENER, latch: case; steel; 50 lb capacity; ov 5¼" lg x 1½" wd x ½" thk w/2 tension springs;
Ref symbol	L6, L7	L11, L12	P2	J2	P1	74	FI

6 Z 3810–49.	2Z 4866.245.	2Z4866.246.	2Z4866.244.	2Z4866.243.	2Z4866.238.	2Z4866.240.	2Z4866.24 2.	2Z4866.241.	3Z32 75-1.
For mounting equipment	For antenna connector	For antenna connector	For antenna connector	For band switch	For case cover	For jack water seal	For power connector	For volume control	Holds F1
FASTENER, latch: case; steel; 100 lb capacity; 21% ('lgx 1%'' wd x 1% ('h w/2 tension springs; Corbin #15801.	GASKET: antenna connector; black neoprene; $1''$ sq x $1''$, thk w/5 holes; Delco #7253520; Rauland #QR-0224.	GASKET: antenna connector; black neoprene; 1%''OD x 5/6'' ID x 0.050'' thk w/3 holes; Delco #725527; Rauland #QR-0220.	GASKET: antenna connector; flange; black neoprene; 32%3" OD x 21%6" ID x %6" thk; Delco #7253442; Rauland #QR-0222.	GASKET: band switch; black neoprene; single hole; %" OD x \(\text{\mathcal{K}}" \); 0.062" thk; Delco \(\text{\mathcal{T}} \) Rauland \(\text{\mathcal{G}} \) Rauland \(\text{\mathcal{G}} \)	GASKET: case cover; black neoprene; 11" lg x 10" wd x %2" thk; Delco #7253639; Rauland #QR-0221.	GASKET: jack water seal; black neoprene; ² ½ ₂ ′′ OD x ² % ₄ ′′ ID x ½ ₂ ′′ thk; Delco #7253464; Rauland #QR-0218.	GASKET: power connector; black neoprene; 1%,'' sq x ¼6'' thk w/5 holes; Delco #7253519; Rauland #QR-0214.	GASKET: volume control; black neoprene; ½" OD x 3%" ID x 0.062" thk; Delco #7253534; Rauland #QR-0223.	HOLDER, fuse: extractor post; for single #3AG fuse; bakelite body; 2%" lg x %" diam over-all; Littelfuse #342001; Rauland #SF-0168.

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335—Continued

Ref symbol	Name of part and description	Function of part	Signal Corns stock No
	INSULATOR, bushing: cylindrical; natural bakelite; 7%" Ig over-all, base diam 0.593", top 0.515"; 0.437", ID: Delog #7953444	For current indicator lamp	, co
	INSULATOR, disk: flat; phenolic; 4" diam x 1/2" thk; Delco #7253633.	For antenna connector P2	3G1838-64.8.
J3A, B, C	JACK ASSEMBLY, telephone: 3 jacks on metal strip; 2 for 2 cond phone plug, 1 for 3 cond microphone plug; 25%4" lg x ¾" wd x 1.240" d over-all, strip ¾4" thk: Delco #7954951	J3A-MIC jack J3B-PH jack. J3C-PH jack.	4C4312-20.
	KNOB: bar; black alumalite; for double flat 1/4// diam shaft; 1/8// hole for mtg screw; 1'/ lg x 3/8// wd x 1/8/2// h over-all; Delco #7253629; Rauland	Fer controls	2Z5822-131.
11	LAMP, incandescent: 2 v, 0.060 amp; bulb T-3-1/4 clear; miniature bayonet base; 13/16" Ig over-all;	I1—R-f power amplifier current indicator.	2Z5971.1.
J1	LAMPHOLDER: miniature bayonet; steel shell body; 1¼" lg x 1½" wd x ½" d over-all; Delco #7253665; Rauland #SL-0049	J1—Holds I1	2Z5883-229.
	LEAD, test: single #18 AWG stranded cond; bakelite jacket; 20' lg w/metal tip one end; Delco #7253918.	For test prod	3E7270-1.
	MOUNTING, fuseholder: zinc die casting; 2‰,' lg x 1‰'' wd x ½,' thk over-all; Delco #7253754; Rauland #JS-0124	For fuse holder	2Z6740.7.
	MOUNTING ASSEMBLY, battery: mts four 1½ v bias cells; consists of four holders on bakelite strip; 35%" lg x ½%, wd x ½%, over-all; Delco #7253506.	Mounts bias cells	2Z6740.6.

3Z741-16.	6R7443-7.	3C1084Z3-26.	3C323-145C.	3C5983-17.	3RC20BF100J	3RC20BF180J	3RC20BF390J	3Z6004-50.
Ground for pack antenna	For removing tubes	L30—Hum filter	L35—High-voltage filter	R66—Limits battery current during 12-volt operation.	R59—Receiver filament voltage dropping. R60—Receiver filament voltage.	age dropping. R61—Receiver filament voltage dropping.	R2—Transmitter filament voltage balance.	R.56—Drops vibrator coil voltage during 12-volt operation.
POST, binding: screw type; 1%2" lg x ½" diam over- all; 1%2" lg x 0.164" diam mtg stem w/#8-32 thd:	Delco #7253873; Rauland #BG-1177. PULLER, tube: for 7 prong miniature type tubes; woven wire; approx 2" lg w/variable diameter; diameter decreases w/increase in length; Kellems	#11-16. REACTOR: filter choke; 0.008 hy min; 0.8 amp; 530 ohms DC resistance; 500 vdcw; HS metal case; 35" lg x 1½" diam less tern; Jeffsonelec #466-001-205; Benland #1.0.0174	REACTOR: filter choke; 3.7 hy, 145 ma; 125 ohms DC resistance; 170 v operating; HS metal case; 2%2" max lg x 2%2" wd x 2%" h less term; Jeffsonelec #466-001-206.	RESISTOR, fixed: wire-wound; 0.31 ohms ±10%; 7 w; body dimen 1¼6" lg x ¼6" diam; Rauland #RW-0310AA8.	RESISTOR, fixed: composition; 10 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF100J.	RESISTOR, fixed: composition; 18 ohms ±5%; % w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF180J.	RESISTOR, fixed: composition; 39 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF390J.	RESISTOR, fixed: wire-wound; 40 ohms ±10%; 7 w; 11/16" lg x 1/16" diam; Lectrohm 1T.
		L30	L35	R66	R59, R60	R61	R2	R56

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335—Continued

Ref symbol	Name of part and description	Function of part	Signal Corps stock No.
R55	RESISTOR, fixed: wire-wound; 40 ohms ±5%; 1" lg x 1%3" diam; JAN type #RW30F400.	R55—Drops filament voltage during 12-volt operation.	3RW15914.
R52, R53	RESISTOR, fixed: composition; 56 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.249" diam;	R52—Receiver filament string- R53—Receiver filament string-	3RC20BF560J.
R1, R67	RESISTOR, fixed: composition; 82 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.249" diam; IAN 4xxx RC20RE820.1	R1—Current indicator lamp shunt.	3RC20BF820J.
R68	RESISTOR, fixed: composition; 100 ohms ±10%; 1 w; max body dimen 0.468" lg x 0.249" diam;	voltage balance. R68—Transmitter filament voltage balance.	3RC20BF101K.
R54	RESISTOR, fixed: composition; 100 ohms ±10%; 1 w; max body dimen 0.750" lg x 0.280" diam;	R54—Receiver filament string.	3RC30BF101K
R62	RESISTOR, fixed: composition; 220 ohms ±5%; 1 w; max body dimen 0.750" lg x 0.280" diam;	R62—Receiver high-voltage dropping.	3RC30BF221J.
B10	RESISTOR, fixed: composition; 330 ohms ±5%; 1 w; max body dimen 0.750" lg x 0.280" diam; IAN two RC30RE3311	R10—Microphone current limiting.	3RC30BF331J.
R63	RESISTOR, fixed: wire-wound; 700 ohms ±10%; 10 w; 1¾" lg ¾," diam; Hard-Hindle #13/4E; Renland #RW-2701A8	R63—V19 voltage regulator	3Z5370.
R15, R16, R18	RESISTOR, fixed: composition; 1500 ohms ±10%; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF152K.	R15—V6 plate and screen decoupling. R16—V7 plate and screen decoupling.	3RC20BF152K.

3RC20BF222K.	3RC20BF332K.	3RC20BF472J.	3RC20BF472K.	- 3RC30BF562K.	3RC20BF6821.	3RC20BF8221.	- 3RC20BF103J.	3RC20BF223L 3RC20BF223K
R18—V8 plate decoupling. R39—V15 plate decoupling.	R6—V5 plate current limiting- R41—V6 plate and screen.	R3—V1, V2 grid	R3—V5 screenR19—V9 plate and screen R20—V10 plate and screen.	R57—T7 secondary buffer R58—T7 secondary buffer.	R7—V5 grid phase shifting	R47—V17 screen voltage divider.	R5—V4 grid	R9—V5 grid isolating
RESISTOR, fixed: composition; 2200 ohms ±10%; % w; max body dimen 0.468" lg x 0.248" diam;		RESISTOR, fixed: composition; 4700 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF472J.	RESISTOR, fixed: composition; 4700 ohms ±10%; % w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF472K.		RESISTOR, fixed: composition; 6800 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF682.I	RESISTOR, fixed: composition; 8200 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN tyme RC20BF822J.	RESISTOR, fixed: composition; 10,000 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF103J.	RESISTOR, fixed: composition; 22,000 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF223J. RESISTOR, fixed: composition; 22,000 ohms ±10%; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF223K.
R39	R6 , R41	R3	R8, R19, R20	R57, R58	R7	B47	R5, R25, R38	R9, R49R17

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335—Continued

Ref symbol	Name of part and description	Function of part	Signal Corps stock No.
R13, R33	RESISTOR, fixed: composition; 27,000 ohms ±10%; ½ w; max body dimen 0.468" lg x 0.249" diam;	R13—J4 pin 2 isolatingR33—J4 pin 1 isolating.	3RC20BF273K.
R30	RESISTOR, fixed: composition; 33,000 ohms ± 10%; % w; max body dimen 0.468" lg x 0.249" diam;	R30-V12 output filter	3RC20BF333K.
R4	RESISTOR, fixed: composition; 39,000 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.249" diam;	R4—V3 grid	3RC20BF393J.
R23.	RESISTOR, fixed: composition; 39,000 ohms ± 10%; % w; max body dimen 0.468" lg x 0.249" diam; IAN 4 may P C 20 B E 2024	R23—V11 screen voltage divider.	3RC20BF393K,
R24	RESISTOR, fixed: composition; 47,000 ohms ±10%; % w; max body dimen 0.468" lg x 0.249" diam; IAN type RC20RE473K	R24—V11 screen voltage divider.	3RC20BF473K.
R32	RESISTOR, fixed: composition; 56,000 ohms ±10%; % w; max body dimen 0.468" lg x 0.249" diam; IAN + was B C20B F 563 W	R32—V13 grid (pin 5)	3RC20BF563K.
R26, R27	RESISTOR, fixed: composition; 100,000 ohms ±5%; % w; max body dimen 0.468" lg x 0.249" diam; IAN + was R CORFIGAL	R26—V12 discriminator load	3RC20BF104J.
R22, R36	RESISTOR, fixed: composition; 100,000 ohms ±10%; ½ w; max body dimen 0.468" lg x 0.249"	R22—V11 gridR36—V8 grid (pin 4).	3RC20BF104K.
R45	RESISTOR, fixed: composition; 120,000 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.249" lg; JAN type RC20BF124J.	R45—V5 grid voltage divider_	3RC20BF124J.

- 3RC20BF224J.	3RC20BF224 K.	3RC20BF334K.	3RC20BF474J.	3RC20BF474K.	3RC20BF105J.	3RC20BF105K	3Z7410-40.	2Z9631. 269.
R11—V5 grid	R42—V5 grid voltage divider. R44—V16 grid (pin 4).	R37—V14 gridR40—V15 grid.	R12—Microphone input h-f audio pre-emphasis. R50—V17 plate load.	R21—J4 pin 5A decoupling R29—V17 grid a-f filter. R35—J4 pin 5A decoupling. R51—V13 audio section plate (pin 6) dropping resistor	R43—V5 grid voltage divider	R14—V6 gridR28—DISCR TEST POINT decoupling.	R48—V17 screen voltage adjustment.	T1—Microphone input
RESISTOR, fixed: composition; 220,000 $\pm 5\%$; $\frac{1}{2}$ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF224J.	RESISTOR, fixed: composition; 220,000 ohms ±10%; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF224K.	RESISTOR, fixed: composition; 330,000 ohms $\pm 10\%$; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF334K.	RESISTOR, fixed: composition; 470,000 ohms ±5%; ½ w; max body dimen 0.468" lg x 0.269" diam; JAN type RC20BF474J.	RESISTOR, fixed: composition; 470,000 ohms +10%; ½ w; max body dimen 0.468" lg x 0.269" diam; JAN type RC20BF474K.	RESISTOR, fixed: composition; 1 meg ±5%; ½ w; max body dimen 0.468" lg x 0.249" diam; JAN type RC20BF105J.	RESISTOR, fixed: composition; 1 meg ±10%; ½ w; max body dimen 0.468" lg x 0.269" diam; JAN type RC20BF105K.	RESISTOR, variable (potentiometer): carbon; 10,000 ohms ±10%; linear taper; 1" diam x ½" d; shaft ¼" diam x ½; lg w/screw-driver slot; Stackpole #LM: Rauland #R.P-103.	TRANSFORMER, AF: microphone; pri 8.5 ohms; seed 1300 ohms; HS shielded case; 1¾" lg x 1" diam; Jeffsonelec #467-001-218; Rauland #LA-0045.
R11	R42, R44	R37, R40	R12, R50	R21, R29, R35, R51.	R43, R46	R14, R28, R34	R48	

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335—Continued

Signal Corps stock No.	2Z9632. 381.	· 2Z9643. 189.	2Z9643. 190.	2Z9643. 191.	2Z9643.19 2 .	2Z9608-56.	2J1A3. 2J1L4.
Function of part	T6—Audio output	T5—Discriminator	T2—First i-f	T3—Second i-f	T4—Third i-f	T7—Vibrator power	V12—Discriminator—————V6—First r-f amplifier————V7—Second r-f amplifier———V9—First i-f amplifier———————————————————————————————————
Name of part and description	TRANSFORMER, AF: output; pri 25,000 ohms; seed 4000 ohms, tapped 250 ohms; HS metal case; 1.400'' lg x 1'' diam; Jeffsonelec #467-001-219;	Rauland #LA-0045. TRANSFORMER, discriminator: 4.3 mc; output; shielded, herm sealed; adj iron cores; tuned pri and secd; 5" lg x 15" diam o/a w/2 mtg holes; Rauland	part/dwg LQ-0114; Delco part/dwg #7254065. TRANSFORMER, IF: input; 4.3 mc; shielded; 3%'' lg x 15%'' wd x 13%'' d over-all; adj iron cores;	Delco #7254025; Rauland #LQ-0116. TRANSFORMER, IF: 4.3 mc; interstage; 2d IF; shielded; adj powdered iron cores; approx 3%" lg x 15%" ad a 13%" de Renland nertidam IO 0117.	TRANSFORMER, IF: 4.3 mc; interstage, limiter; shielded; adj powdered iron cores; approx 3%"	TRANSFORMER, power: vibrator; pri 6 or 12 v input; output 280 v CT, 120 cyc; HS metal case; 3.305" lg x 25%4" wd x 3" h less term; Jeffsonelec	#465-001-209; Rauland #LP-0186. TUBE, electron: JAN-1A3
Ref symbol	Т6	T5	T2	T3	74	T7	V12

	2J1R5.	2J3A5.		213Q4.	2J6AF6G.	2JOB3/VR90. 3Z6925-3.10.		3H6699-11.	2ZA951-19.	6L50244BN.	2Z4866.239.	6RK55232.	-
V10—Second i-f amplifierV11—LimiterV14—Crystal oscillator amplifierV17—D-c amplifier	V8—MixerV16—Bias oscillator	V1—R-f power amplifier V2—R-f power amplifier.	V4—Transmitter oscillator. V13—Discriminator and a-f	amplifier.	V15—Crystal oscillator.	V19—Voltage regulator R64—Receiver filament volt-	age regulator. R65—Transmitter filament	voltage regulator. VIB—Synchronous vibrator.	For indicator	For cover	For cover	Tool	TOTAL BC-1335-Contin
10-10-10 ment when the total askelles total 12-10-10-10-10-10-10-10-10-10-10-10-10-10-	TUBE, electron: JAN-1R5	TUBE, electron: JAN-3A5		TIBE, electron: JAN-304	TUBE, electron: JAN-6AF6G	TUBE, electron: JAN-OB/VR90TIBE ballest: class: 4 0 to 4 4 v across load: 1.5 to	3.1 v drop across tube; 0.34 to 0.37 amp T-9 bulb; 3%," Ig over-all; Amperite #3H-1-7.	VIBRATOR, synchronous: vibrator rectifier; input 6 v, DC, 5 amp; 3%" lg x 1%" diam; Mallory	9	lg; Delco #7253606; Rauland #QP-0272. WASHER, cup: brass; nickel pl; ID %" x %" hole	diam x %4" n; Delco # 7255421; Kaugand #AG-5095. WASHER, flat: black neoprene; round; 0.160" ID x	x %" thk; setscrew;	diam over-all; "L" shaped, fluted; Bristolco #4; Rauland #AG-1630.
	V8, V16	V1, V2, V3, V4, V13		V5 V15	Z18	V19		VIB.			B10 M	before to told	-

Identification Table of Replaceable Parts for Receiver-Transmitter BC-1335-Continued

Signal Corps stock No.	3Z7499-1.15. 2Z7780-11. 2Z8273-6. 2Z8273-6. 2Z8678. 2Z8659-7. 2Z8677.94.
Function of part	R31—VOLUME control—S4—On-off switch. Holds crystal holder————————————————————————————————————
Name of part and description	RESISTOR, variable (potentiometer): carbon; 1 meg ±20% w/switch SPST; ½6" diam x 0.754" d; shaft ½2" g x ¼" diam; CTS #45 series, type #W-4142; Rauland #RP-105Y. RETAINER, crystal holder: consists of bracket, spring, sleeve, two bushings, and pin; 1¾6" g x 1¾6" wd x 2" hover-all; Delco #7253678; Rauland #AG-4015. SEAL, water: steel; engraved "MIC"; 1¼6" g x 1¾6" wd x ¾" d; Delco #7253660; Rauland #AG-4015. SEAL, water: steel body; engraved "PH"; 1¼6" lg x 1¾6" wd x ¾" d; Delco #7253664; Rauland #AG-4015. SHIELD, tube: aluminum; round, open top; slot mtd: 1¾" g x 0.941" diam; JAN type SOS-6. SOCKET, crystal: 4 prong; molded phenolic; 1¾6" lg x 2¾2" wd x 1¼6" h over-all; Cinch #9804; Rauland #SF-0199. SOCKET, tube: 6 cont; bakelite body; 1¾" diam x ¼6" h less term; Amphenol #MIP-6. SOCKET, tube: miniature 7 pin; molded phenolic body; 1¾2" diam x 1¼6" h over-all; JAN type SO-10-M. SOCKET, tube: miniature 7 pin; ceramic body; 1¾2" diam x 1½6" h over-all; JAN type SO-10-C.
Ref symbol	R31, S4

3Z8678.231.	2Z8879–56.	2Z8877.101.	2Z8879–5 5.	3Z1891-21.3.	3Z9580-2.2.	3Z9825-55.77.	3Z9835-4.4.	3Z9849.12.
Tube socket	Holds chart	Maeks ground connection	Holds vibrator	L31—Battery line noise filter. L74A—Battery line noise filter. ter. L74B—Battery line noise fil-	ter. S3—ALIGN-OPERATE switch.	S5—6V-12V switch	S2—CHANNEL switch	S1—ALIGN 5 AND 6— ALIGN OTHERS switch.
SOCKET, tube: octal; mica filled bakelite; body 1" diam x ½" less term; Cinch #6742; Rauland #ST-800X.	SPRING: flat; chart retainer; 0.016" phosphorbronze; 1%, 'lg x %'' wd x %,'' h over-all; Delco #7253431.	SPRING: flat; grounding cont; 0.011" spring brass; 13%4" lg x %" wd x 3%" h over-all; Delco #7253814; Rauland #AG-3037.	SPRING: flat; vibrator retainer; 0.025" carbon steel; 15" OD x 11" ID x) 19%2" h; Cinch #52092.	SUPPRESSOR, electrical noise: "A" supply; capacitor and choke coil on 0.050" aluminum bracket; 315/32" Ig x 13/4" wd x 13/8" h over-all; 6 amp, 3 v DC: 31/8 amp, 14 v DC: Delco #7253767: Rauland	**WG-2316. SWITCH, lever: two position, nonlocking; cont arrangement position #1, 1A2B, position #2, 2B1A; bakelite insulation; 1%" lg x %" wd x 2¼" h overall; Centralab #N7806XT.	SWITCH, rotary; 4 SPST, 5 pole, two position; three sect; cont arrangement #1, 2A2B-2A2B-2A and shorting position; position #2, 2B2A-2B1A; bakelite insulation; 4¾2" lg x 11¾" wd x 1¾" h over-all; nonlocking; Mallory type #RM.		SWITCH, toggle: DPST; bakelite body; 3 amp, 250 v; body dimen 15/2" lg x ½" wd x 3/32 h; C-H #8370K1; Rauland #X-0239.
				L31, L74A, B	S3A, B, C	S5A, B, C	82A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J.	S1A, B

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